

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An optical disc device comprising:

a pickup having a semiconductor laser for providing a laser beam for recording
[[of]] data on an optical disc, wherein the pickup is configured to identify a type of the optical disc during execution of a recording operation on the optical disc;

a motor configured ~~coupled~~ to rotate the optical disc at a rotational speed;

a movement mechanism configured to move the pickup in a radial direction of the optical disc;

a system controller configured to control a data recording speed at which the recording operation is executed on the optical disc, wherein the system controller controls the data recording speed ~~the pickup~~ by supplying a drive current to the semiconductor laser and by controlling the ~~to control~~ a rotational speed at which the motor rotates [[of]] the optical disc;
[[and]]

a temperature sensor configured to detect a temperature of an interior of the pickup; and

a memory configured to store information corresponding to different types of optical discs, wherein the information comprises a data recording speed at which a recording operation is optimally executed on a particular type of optical disc based on a particular temperature of the interior of the pickup;

wherein the system controller:

determines the type ~~data recording properties~~ of the optical disc on which the pickup is executing the recording operation, wherein the type of the optical disc is determined from the pickup,

obtains a data recording speed from the memory, wherein the obtained data recording speed corresponds to the data recording speed at which a recording operation is

optimally executed on the determined type of the optical disc at the temperature detected by the temperature sensor, and

controls the drive current supplied to the semiconductor laser and controls the rotational speed at which the motor rotates the optical disc based on the obtained data recording speed such that the data recording speed at which the recording operation is executed on the optical disc is changed to the obtained data recording speed data-recording properties of the optical disc determined by the system controller, and

controls the rotational speed of the motor based on the data-recording properties of the optical disc determined by the system controller;

thereby continuously executing the [[a]] recording operation on the optical disc without regard to the temperature of the interior of the pickup detected by the temperature sensor.

2. (Currently amended) The optical disc device according to claim 1, wherein the pickup system controller determines the type data-recording properties of the optical disc based on information recorded in an inner circumferential section of the optical disc.

3. (Currently amended) The optical disc device according to claim 1, wherein the memory system controller comprises a table for storing optimal setting a data recording speeds speed for the different types of optical discs based on disc, the table containing the detected temperature of the interior of the pickup and the data-recording properties of the disc as parameters.

4. (Currently amended) The optical disc device according to claim 1, wherein a thickness the dimension of the optical disc device in the thickness direction thereof is not greater than no more than 10 mm.

5. (Currently amended) The optical disc device according to claim 1, wherein the data-recording properties of the optical disc include at least one of the type of the optical disc [,,] comprises at least one of information regarding the manufacturer of the optical

disc, information regarding the laser power needed for recording, and information regarding the rotational speed of the optical disc.

6. (Currently amended) A method of recording data on an optical disc, the method comprising:

rotating an optical disc at a rotational speed;

executing a recording operation to record data on the optical disc data by directing a laser beam onto the optical disc;

detecting a temperature of an interior region of a pickup, wherein the pickup comprises having a semiconductor laser for providing the [[a]] laser beam to execute the [[for]] recording operation, the semiconductor laser being controlled by a drive current data on the optical disc;

controlling drive current to the semiconductor laser based on the detected temperature;

determining a type data recording properties of the optical disc;

obtaining a data recording speed from a memory, wherein the obtained data recording speed corresponds to a data recording speed at which the recording operation is optimally executed on the determined type of the optical disc at the detected temperature; and

controlling the drive current supplied to the semiconductor laser and controlling the rotational speed of the optical disc based on the obtained data recording speed such that the data recording speed at which the recording operation is executed is changed to the obtained data recording speed;

setting the rotational speed of the optical disc based on the determined data recording properties of the optical disc; and

continuously executing the [[a]] recording operation on the optical disc without regard to the temperature of the interior of the pickup detected by the temperature sensor.

7. (Currently amended) The method according to claim 6, wherein the type data-recording properties of the optical disc is ~~[[are]]~~ determined based on information recorded in an inner circumferential section of the optical disc.

8. (Currently amended) The method according to claim 6, wherein controlling setting of the rotational speed of the optical disc is performed prior to executing the recording operation ~~on the optical disc~~.

9. (Currently amended) The method according to claim 6, wherein controlling setting of the rotational speed of the optical disc is performed after executing the recording operation ~~on the optical disc~~.

10. (Currently amended) The method according to claim 6, wherein the type data-recording properties of the optical disc comprises include at least one of the type of the optical disc; information regarding the manufacturer of the optical disc, information regarding the laser power needed for recording, and information regarding the rotational speed of the optical disc.